ABSTRACT

SIMS monitor device forming a method of Α 0039 determining a doping profile of a semiconductor device structure plurality of regularly repeating including providing a semiconductor structures including a doping profile to form a monitor device including at least one layer of the regularly repeating semiconductor structures; planarizing the monitor reqularly repeating thickness of the through a device semiconductor structures to reveal a target surface overlying the doping profile to form a monitor pattern; and, sputtering the target surface over a sputtering area including the monitor simultaneously thickness thereof while through a detecting and counting over a time interval at least one type of species ejected from the target surface according to a secondary ion mass spectroscopy procedure (SIMS).